



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Lothar Kempen
Assignee: Maven Technologies, LLC
Title: APPARATUS AND METHOD FOR IMAGING
Serial No.: 10/602,555 Filing Date: June 23, 2003
Examiner: Hoa Q. Pham Group Art Unit: 2877
Docket No.: M-15218-3C US Confirmation No. 1187

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(B)**

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c)

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Pursuant to 37 CFR § 1.56, § 1.97 and § 1.98, the document listed on the accompanying Substitute for form 1449/PTO is called to the attention of the Examiner for the above patent application. A Copy of the documents are enclosed.

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;

2. a representation that a search has been made, or

3. an admission that the information cited herein is, or is considered to be

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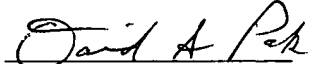
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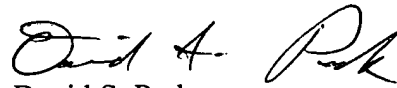
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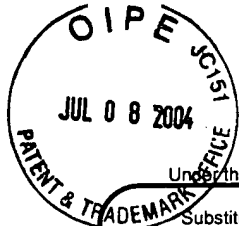
Respectfully submitted,



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/602,555
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First Named Inventor	Lothar Kempen
Art Unit	2877
Examiner Name	Hoa Q. Pham
Attorney Docket Number	M-15218-3C US

Sheet 1 of 7

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 2004/0023247A1	02-05-2004	Xu et al.	
		US- 2004/0012676A1	01-22-2004	Weiner et al..	
		US- 2004/0030504A1	02-12-2004	Helt et al.	
		US- 2004/0038268A1	02-26-2004	Pirrung et al.	
		US- 2004/0002167A1	01-01-2004	Andersson et al.	
		US- 2002/0182717A1	12-05-2002	Karlsson	
		US- 2002/0154311A1	10-24-2002	Ivarsson	
		US- D472,644S	04-01-2003	Dawson et al.	
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		US- 5,955,729	09-21-1999	Nelson et al.	
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		US- 6,493,097 B1	12-10-2002	Ivarsson	
		US- 6,143,574	11-07-2000	Karlsson et al.	
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		US- 6,207,381B1	03-27-2001	Larsson et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 03/102580A1	12-11-2003	Saeften et al.		
		WO 03/056337A1	07-10-2003	Loefas		
		AU 742417	02-11-2000	Ivarsson		
		WO 98/32002	07-23-1998	Herbai et al.		
		WO 97/19375	05-29-1997	Ivarsson et al.		
		WO 96/38729	12-05-1996	Wahlstroem et al.		

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Sheet 2 of 7

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First Named Inventor	Lothar Kempen
Art Unit	2877
Examiner Name	Hoa Q. Pham
Attorney Docket Number	M-15218-3CUS

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		Number-Kind Code ² (if known)			
		US- 2002/0019019 A1	02-14-2002	Hamalainen et al.	
		US- 6,143,513	11-07-2000	Loefas	
		US- 5,972,612	10-26-1999	Malmqvist et al.	
		US- 6,200,814 B1	03-13-2001	Malmqvist et al.	
		US- 6,008,893	12-28-1999	Roos et al.	
		US- 6,289,286 B1	09-11-2001	Andersson et al.	
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		US- 4,256,834	03/17/1981	Zuk et al.	
		US- 5,922,604	07/13/1999	Stapleton et al.	
		US- 6,008,010	12/28/1999	Greenberger et al.	
		US- 6,045,996	04/04/2000	Cronin et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 96/08720	03-21-1996	Sternesjoe et al.		

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				Art Unit	2877
				Examiner Name	Hoa Q. Pham
				Attorney Docket Number	M-15218-3C US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		TADASHI SAITOH, ET AL. "Optical Characterization of Very Thin Hydrogenated Amorphous Silicon Films Using Spectroscopic Ellipsometry"; Japanese Journal of Applied Physics; Vol. 30, No. 11B, November 1991. pp. L1914-L1916	
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		BASS, ET AL. "Handbook of Optics", by The Optical Society of America; Vol. 1; Section 41.10; 1995 McGraw-Hill, Inc.	
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		MAX BORN ET AL. "Principles of Optics – Electromagnetic Theory of Propagation, Interference and Diffraction of Light", Sixth Edition, pp. 47-51 Pergamon Press	
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		DANNY VAN NOORT ET AL. "Monitoring Specific Interaction of Low Molecular Weight Biomolecules on Oxidized Porous Silicon Using Ellipsometry", Biosensors & Bioelectronics Vol. 13, No.3-4 pp. 439-449, 1998 Elsevier Science, S.A. Great Britain	
		GANG JIN ET AL. "Imaging Ellipsometry for Biosensor Applications" Transducers '95. Eurosensors IX, Digest of Technical Papers Vol 2, Sessions A7-D13, Papers No 232-496 pp. 509-512, Stockholm, Sweden, June 1995	
		JINYU WANG "Waveguide Ellipsometry Biosensors: Concept and Preliminary Analysis", SPIE Vol. 1648, Fiber Optical Medical and Fluorescent Sensors and Applications pp. 44-50, 1992	
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		JONSSON, ULF ET AL. "Biosensors Based on Surface Concentration Measuring Devices-The Concept of Surface Concentration" Progress in Colloid and Polymer Sci. Vol. 70, pp. 96-100, 1985	
		SCHENA, MARK "DNA Microarrays: A Practical Approach" Edited by Mark Schena, Department of Biochemistry, Beckman Center, Stanford University Medical Center, Stanford, USA, Oxford University Press, 1999	
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		A. BRECHT ET AL. "Biosensors: Fundamentals, Technologies and Applications" GBF Monographs, Vol. 17, pp.174-178, 1991 Germany	

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Sheet	6	of	7	Attorney Docket Number	M-15218-3C US

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		HAKAN NYGREN ET AL. "Kinetics of Antibody-Binding to Surface-Immobilized Antigen: Influence of Mass Transport on the Enzyme-Linked Immunosorbent Assay (ELISA)", Journal of Colloid and Interface Science, Vol. 107, No. 2 pp. 560-566, October 1985 Academic Press, Inc.	
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		DR. RUDOLF OLDENBOURG "A new view on polarization microscopy", Nature, Vol. 381, pp.811-812, 27 June 1996	

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		CLIFFORD C. HOYT ET AL. "Structural analysis with quantitative birefringence imaging", American Laboratory, pp. 34-42, July 1999	
		DIRK HONIG ET AL. "Direct visualization of monolayers at the air-water interface by Brewster angle microscopy", J. Phys. Chem., pp. 4590 & 4592, 1991 American Chemical Society	
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		GANG JIN ET AL. "A biosensor concept based on imaging ellipsometry for visualization of biomolecular interactions", Analytical Biochemistry 232, pp.69-72, 1995	
		PENTTI TENGVALL ET AL. "Complement activation by 3-mercapto-1,2-propanediol immobilized on gold surfaces", Biomaterials Vol. 17, No. 10 pp. 1001-1007, 1995 Elsevier Science Ltd., Great Britain	
		H. ARWIN "Spectroscopic ellipsometry and biology: recent developments and challenges", Thin Solid Films 313-314, pp.7640774, 1998 Elsevier Science S.A.	
		CHRISTOPHER PALMER "Diffraction Grating Handbook", pp. 35-44, 2000 Richardson Grating Laboratory, Rochester, New York	
		ERWIN G. LOEWEN "Diffraction Gratings, Ruled and Holographic", Applied Optics and Optical Engineering, Vol. IX, pp.33-71, Bausch and Lomb, Inc., Rochester, New York 1983 Academic Press, Inc.	

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